

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

STEPHEN J. MILLER ET AL.

Serial No.: 10/643,555

Filed: August 18, 2003

For: MIXED MATRIX MEMBRANE
WITH SUPER WATER WASHED
SILICA CONTAINING
MOLECULAR SIEVES AND
METHODS FOR MAKING AND
USING THE SAME

GROUP ART UNIT:

EXAMINER:

P.O. Box 6006
San Ramon, CA 94583-0806

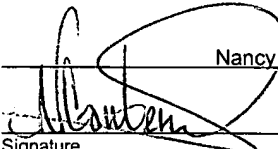
INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

This Information Disclosure Statement is submitted pursuant to
37 CFR §§ 1.56, 1.98 and 1.97, particularly 1.97(c). The documents listed on
the attached Forms PTO/SB/08A and PTO/SB/08B are brought to the
Examiner's attention. Copies of these documents are enclosed.

I hereby certify that I have a reasonable basis for believing that this
correspondence will be deposited with the United States Postal
Service as first class mail in an envelope addressed to:
Commissioner for Patents,
P. O. Box 1450, Alexandria, VA 22313-1450, on February 26, 2004
Date of Deposit



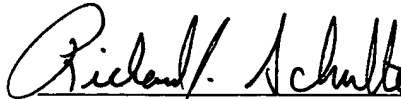
Nancy Cantero

February 26, 2004
Signature Date

Information Disclosure Statement
USSN 10/643,555
Page 2

In the event a first Office Action on the merits has been mailed by the Patent Office before receipt by the Patent Office of this Information Disclosure Statement, the Patent Office is authorized to charge the fee under 37 CFR §§ 1.17(p) and 1.97(c)(2) for this Information Disclosure Statement to Deposit Account No. 03-1620. A duplicate copy of this paper is enclosed for deposit account use, if needed.

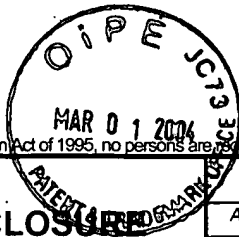
Respectfully submitted,

A handwritten signature in black ink, appearing to read "Richard J. Schulte", is written over a horizontal line.

Richard J. Schulte
Attorney for Applicants
Reg. No. 35,350
(925) 842-1476

RJSchulte:ncc
Enclosures

February 26, 2004



PTO/SB/08a (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

Sheet	1	of	2	Application Number	10/643,555
				Filing Date	August 18, 2003
				First Named Inventor	STEPHEN J. MILLER
				Art Unit	
				Examiner Name	
				Attorney Docket Number	T-6282

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	AA	US- 3,567,632	03-02-1971	Richter et al.	
	AB	US- 4,230,463	10-28-1980	Henis et al.	
	AC	US- 4,544,538	10-01-1985	Zones	
	AD	US- 4,728,345	03-01-1988	Murphy	
	AE	US- 4,925,459	05-15-1990	Rojey et al.	
	AF	US- 5,085,676	02-04-1992	Ekiner et al.	
	AG	US- 5,104,532	04-14-1992	Thompson et al.	
	AH	US- 5,127,925	07-07-1992	Kulprathipanja et al.	
	AI	US- 5,234,471	08-10-1993	Weinberg	
	AJ	US- 5,288,304	02-22-1994	Koros et al.	
	AK	US- 6,508,860 B1	01-21-2003	Kulkarni et al.	
	AL	US- 2003/0069449 A1	04-10-2003	Zones et al.	
		US -			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	BA					
	BB					
	BC					
	BD					
	BE					
	BF					
	BG					

DISCLAIMERS:

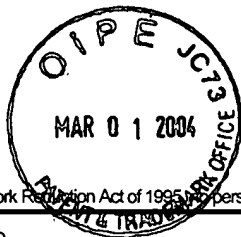
This form is being used for the convenience of the patent office. It is not to be construed as an admission by the Applicant(s) that any of the cited references are prior art.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b(08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number	10/643,555
Filing Date	August 18, 2003
First Named Inventor	STEPHEN J. MILLER
Art Unit	
Examiner Name	
Attorney Docket Number	T-6282

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	O'BRIEN, K.C., KOROS, W.J., and BARBARI, T.A., A New Technique for the Measurement of Multicomponent Gas Transport Through Polymeric Films, <i>J. Membrane Sci.</i> , 29, 229-238 (1986).	
	CB	COSTELLO, L.M. and KOROS, W.J., Temperature Dependence of Gas Sorption and Transport Properties in Polymers: Measurement and Applications, <i>Ind. Eng. Chem. Res.</i> , 31, 2708-2714 (1992).	
	CC		
	CD		
	CE		
	CF		
	CG		
	CH		
	CI		
	CJ		
	CK		

DISCLAIMERS:

This form is being used for the convenience of the patent office. It is not to be construed as an admission by the Applicant(s) that any of the cited references are prior art.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.